PATENT COOPERATION TREATY

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				(PCT Rule 43 <i>bis</i> .1)		
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	form PCT/ISA/22			See paragraph 2 belov		
	national application N	0.	International filing date (da	ay/month/year)	Priority date (day/monthlyear) 25.03.2004	
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nter	national Patent Class	ification (IPC) or	both national classification a	ina IPC		
	B7/26, H04B1/70	1				
ppli	icant NINKLIJKE PHILI	IPS ELECTR	ONICS N.V.			
	- THE					
	This opinion CO	ntains indicat	ons relating to the follo	owing items:		
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	⊠ Box No. I	Basis of the o				
	Box No. II	Priority	ment of opinion with rega	ard to novelty, inventi	ve step and Industrial applicability	
	☐ Box No. III☐ Box No. IV	A	of invention			
	Box No. V	_ , ,	tement under Rule 43 <i>bis</i> itations and explanations	:.1(a)(i) with regard to s supporting such sta	novelty, inventive step or Industrial tement	
	□ Box No. VI	Certain docu		,,		
	Box No. VII		ts in the international app	dication		
	⊠ Box No. VIII	Certain obse	vations on the internation	nal application		
2.	FURTHER ACT					
۷.	If a demand for written opinion of the applicant of International Buryll not be so co	international proof the Internation ooses an Authoreau under Rulansidered.	ority other than this one to e 66.1 <i>bis</i> (b) that written o	be the IPEA and the opinions of this Intern	ill usually be considered to be a However, this does not apply where e chosen IPEA has notifed the ational Searching Authority	
	submit to the IP	'EA a written re e date of mailin	g of Form PCT/ISA/220 o	written opinion of the opriate, with amendmr before the expiration	e IPEA, the applicant is invited to nents, before the expiration of three n of 22 months from the priority date,	
	whichever expi					
	For further option	ons, see Form	PCT/ISA/220.			
3.	For further option		PCT/ISA/220. o Form PCT/ISA/220.			
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Telephone No. +49 30 25901-476



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050802

	Box No	o. 1	Basis of the opinion
١.	the lan	guag	to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	□ Th	nis op ngua nder	pinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With re	egaro sary	d to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type	of r	material:
		as	sequence listing
		tab	ple(s) related to the sequence listing
	b. forr	nat c	of material:
		in	written format
		in	computer readable form
	c. tim	e of	filing/furnishing:
			ontained in the international application as filed.
	. 👝	file	ed together with the international application in computer readable form.
		fu	rnished subsequently to this Authority for the purposes of search.
;	ŀ	nas t Ponie	ldition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as opriate, were furnished.
	4. Addi	tiona	al comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050802

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-39

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-39

1-39

Industrial applicability (IA)

Yes: Claims

Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

No:

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V.

1 Reference is made to the following documents:

D1: US 2002/110099 A1 (ZEIRA ARIELA ET AL) 15 August 2002 (2002-08-15)

D2: MAYER J ET AL: "Handoff protocols in JD-CDMA" PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 1998. THE NINTH IEEE INTERNATIONAL SYMPOSIUM ON BOSTON, MA, USA 8-11 SEPT. 1998, NEW YORK, NY, USA,IEEE, US, vol. 1, 8 September 1998 (1998-09-08), pages 355-359, XP010314789 ISBN: 0-7803-4872-9

- 2. Objections to Article 33 PCT:
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve any inventive step in the sense of Article 33(3) PCT.
 - Document D1 discloses (the references in parentheses applying to this document): A method for implementing downlink Joint Detection in TDD CDMA communication systems to be performed in the UE, comprising the steps of:
 - a) receiving downlink signal from a network system in a specific timeslot; (paragraphs 17 and 18);
 - b) obtaining an active primary and secondary channelisation codes in the specific timeslot, through processing the downlink signal (using the mapping between midambles and channelisation codes, and using a dedicated channel providing the necessary information for the remaining uncertainty, see paragraphs 18 and 21) c) acquiring the initial ACC (Active Channelisation Codes) information for use in implementing Joint Detection in next radio frame, through a midamble detection (block 48 on figure 3) and the decoding of channelization code information (paragraph 21) implementing a JD algorithm on the downlink signal by using the primary and secondary channelisation codes.
 - 2.2 In D1, it is only mentioned that the ACC is acquired via the midamble mapping associated to the decoding of channelization code information which is disclosed as being a layer one signal. It would be obvious to a skilled person that due to the

presence of strong adjacent channels like the BCH, a Joint Detection has to be implemented in order to decode this layer one signal carrying the missing channelisation code information.

- 2.3 Therefore the subject-matter of claim 1 does not involve any inventive step (Article 33(3) PCT).
- 2.4 Since D1 discloses the use of a layer one signal to transmit the channelisation codes information, the subject-matter of claim 15 also does not involve any inventive step (Article 33(3) PCT).
- 2.5 The same objection applies to corresponding apparatus claims 22 and 34. The subject-matter of these claims therefore does not involve any inventive step (Article 33(3) PCT).
- 2.6 Concerning the additional steps or features of dependent claims 2 to 14, 16 to 21, 23 to 33 and 35 to 39, it would be obvious to a skilled person when trying to implement the idea disclosed in paragraph 21, to look for reserved bits within existing channels in the standard, and therefore the skilled person would come across the FPACH as a channel suitable for bearing the supplementary channelization code information, and consider the well-known decoding methods as mentioned in these claims. Therefore the subject of the dependent claims does not involve any inventive step (Article 33(3) PCT).

Re Item VIII.

- There are further objections concerning the requirements of Article 6 PCT:
- 3.1 The expressions "primary and secondary channelisation codes" first introduced in claims 1, 19, 20, 22 and 37 are not clear, since they are related to the specific default midamble case, which is not defined in these claims.
- 3.2 The difference between steps b) and c) in claim 1 remains unclear, since both of

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

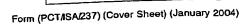
International application No.

PCT/IB2005/050802

them (see claims 3 and 5) decodes the ACC dedicated channel.

PATENT COOPERATION TREATY

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То:				PC REC'D 27 MAY 2005
see form PC	CT/ISA/220		INTERNATIO	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)
			Date of mailing (day/month/year) se	ee form PCT/ISA/210 (second sheet)
Applicant's or agent's file re	eference		FOR FURTHER See paragraph 2 bel	ACTION
see form PCT/ISA/220 International application No. PCT/IB2005/050802		International filing date (d 04.03.2005		Priority date (day/month/year) 25.03.2004
International Patent Classi H04B7/26, H04B1/70	fication (IPC) or b	ooth national classification	and IPC	
Applicant KONINKLIJKE PHILI		ONICS N.V.		
2. FURTHER ACT If a demand for written opinion of the applicant che international Bu will not be so co	Lack of unity of Reasoned state applicability; of Certain documental Certain defect Certain observations. ION international proof the Internation ooses an Authoreau under Rule onsidered.	ment of opinion with regot invention terment under Rule 43bi itations and explanation nents cited to in the international apvations on the international eliminary examination is nal Preliminary Examinity other than this one e 66.1bis(b) that written pove, considered to be a	is.1(a)(i) with regard as supporting such supporting such supplication and application are made, this opinion to be the IPEA and to opinions of this Interpart written opinion of the supplication of the supp	will usually be considered to be a). However, this does not apply where he chosen IPEA has notifed the rnational Searching Authority The IPEA, the applicant is invited to
submit to the IP months from the whichever expli	e date of mailing es later.	g of Form PCT/ISA/220	ropriate, with amend or before the expirat	ments, before the expiration of three ion of 22 months from the priority date,
1	ons, see Form f ails, see notes to	PCT/ISA/220. o Form PCT/ISA/220.		•
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Name and mailing add	ress of the ISA:		Authorized Office	of Service Statement State
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2005/050802

	Box No	. I Basis of the opinion
1.	the land	gard to the language , this opinion has been established on the basis of the international application in juage in which it was filed, unless otherwise indicated under this item.
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2.	With re	gard to any nucleotide and/or amino acid sequence disclosed in the international application and ary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
	□ ,	a sequence listing
		table(s) related to the sequence listing
	b. form	at of material:
	Ü	in written format
		in computer readable form
	c. time	of filling/furnishing:
	· 🗖	contained in the international application as filed.
,		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/B2005/050802

Box No. V Reasoned statement under Rule 43*bls*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-39

Claims No:

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Yes: Claims

Claims No:

1-39

1-39

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Yes: Claims No:

Claims

2. Citations and explanations

see separate sheet

Certain observations on the international application Box No. VIII

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2005/050802

them (see claims 3 and 5) decodes the ACC dedicated channel.